THE MINDANAO POWER MONITORING COMMITTEE

Accomplishment Report 2013

MINDANAO 2020

MINDANAO POWER MONITORING COMMITTEE MPMC

MinDA

> The dream is that, by the time I step down in 2016, this energy situation will be one less worry in the minds of Mindanawons and investors in Mindanao alike—that by then, I can truthfully say that I left you in very good hands and in a better state than what I have found.

President Benigno S. Aquino III
Mindanao Power Summit, April 2012



Photo by MinDA

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ACCOMPLISHMENT REPORT 2013

ABOUT THE MINDANAO POWER MONITORING COMMITTEE

Created through the Executive Order 81 signed by President Benigno S. Aquino III in July 2012, the Mindanao Power Monitoring Committee (MPMC) is tasked to coordinate the efforts of national, regional and local governments, and power industry stakeholders to improve the power situation in Mindanao.

The Mindanao Development Authority (MinDA) spearheads the committee, which is composed of the Department of Energy (DOE), Energy Regulatory Commission (ERC), National Electrification Administration (NEA), National Power Corporation (NPC), Power Sector Assets and Liabilities Management Corporation (PSALM), Mindanao Electric Power Alliance (MEPA), and the Association of Mindanao Rural Electric Cooperatives (AMRECO).



MinDA Investment Promotions and Public Affairs Office Director and MPMC Technical Working Group Head Romeo Montenegro discusses the demand and supply situation of the Mindanao power grid during a media forum held on April 12, 2013 at the Royal Mandaya Hotel in Davao City.

Photo by MinDA

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ON THE COVER

Encapsulating the core objective of the MPMC, the cover photo symbolizes its continuous and collaborative efforts with other government agencies and stakeholders in the energy sector leading towards a regime of reliable, affordable, and sustainable power supply in the island-region.



BACKGROUND

Several decades ago, more than 90 percent of Mindanao's power was generated from its hydro power plants, which served the energy demand for the island-region's growing power needs. It was an era of clean, affordable, and reliable power supply for the island-region.

However, less than 10 years ago, Mindanao's increasing need for energy coupled with the declining capacity of the ageing Agus-Pulangi hydropower complex struck the island-region with deficiencies in power supply, which caused massive power interruptions in the region's key cities and provinces.

Mindanao's need for electricity is growing at 4.7 to 5.28 percent annually, stimulated by the expansion of industries, real estate development, and the services sector that utilized power from the Mindanao grid. In the past decade, the island-region also managed to increase its gross regional domestic product at a rate even better than the national average, with its key regions outperforming other regions across the country in terms of growth.

The island-region's thriving industries contributed to the overall performance of the Philippine economy, posting 7.8 percent in the first quarter of 2013, owing to strong performance of the manufacturing and services sectors. Unfortunately, investments in Mindanao's power generation industry did not move at the same pace, and Mindanao is subsequently confronted with a serious power shortage.

A daily average of 100 to 300 megawatt (MW) power shortage caused by a confluence of various reasons continued to haunt the island-region: Economic growth without a parallel increase in power supply, the need to rehabilitate Agus and Pulangi Hydroelectric power plants to raise their output, re-allocation of meager supply to keep systems losses down, the need to keep power costs down with very limited options, and so many others.

The Mindanao 2020 Peace and Development Framework Plan, which is considered as the island-region's socioeconomic roadmap for 2011 to 2030 identified the critical role and importance of the power sector in the overall economic development the region. As one of the enabling conditions critical to achieving the goals set by the plan, MinDA emphasized the importance of an increased national government focus on the region's power supply being an impetus for a socioeconomic turnaround.

Employing a holistic approach, the Mindanao 2020 sought for the increased participation among local stakeholders from both public and private sectors in finding immediate and long-term solutions to the challenges of the region's power sector. The plan also identified the need to further diversify the energy mix of Mindanao with a key resolve to increase sources of indigenous and renewable energy.

On April 13, 2012 President Benigno S. Aquino III through the Mindanao Development Authority (MinDA) organized the Mindanao Power Summit and convened key business leaders, power sector representatives, government officials, and members of civil society groups to discuss the region's power situation. The event provided a platform for the crafting of specific measures to address Mindanao's power shortfall and eventually augment the region's power generation capacity.

Heeding to the calls of Mindanawons for immediate and feasible solutions for the island-region's power situation, the Mindanao Power Monitoring Committee (MPMC) was created to facilitate and address the fluctuating energy situation in almost all areas in the island-region.



"Heeding to the calls of Mindanawons for immediate and feasible solutions for the island-region's power situation, the Mindanao Power Monitoring Committee (MPMC) was created to facilitate and address the fluctuating energy situation in almost all areas in the island-region."



Photo by MinDA



CREATION OF THE MINDANAO POWER MONITORING COMMITTEE

President Aquino approved the creation of the MPMC through Executive Order 81 in July 30, 2012, to ensure that all the recommendations raised during the Mindanao Power Summit are looked into. The committee is also tasked to take the lead in coordinating all efforts in improving the power situation in Mindanao.

MPMC is co-chaired by the Department of Energy (DOE) and the Mindanao Development Authority (MinDA), which oversees the committee and serves as its secretariat. Other members of the committee include:

- Energy Regulatory Commission (ERC)
- National Electrification Administration (NEA)
- National Power Corporation (NPC); National Grid Corporation of the Philippines (NGCP)
- National Transmission Corporation (TransCo)
- Power Sector Assets and Liabilities Management Corporation (PSALM)
- Representatives of the Mindanao Electric Power Alliance (MEPA) and Association of Mindanao Rural Electric Cooperatives (AMRECO)

Through the MPMC, MinDA ensures better coordination among relevant government agencies and stakeholders in the energy sector of Mindanao. With strong push for Renewable Energy (RE) development, the Mindanao Power Development Program of MinDA pursues efforts that will realize a regime of reliable, sustainable, and affordable power in Mindanao.

Since its creation , the MPMC has identified several measures ranging from short-term up to long-term solutions that will contribute to solving the energy crisis in the island-region and ensure stable and sustainable power which eventually will avoid a cyclical repetition of power crises within the island-region.

MPMC MEMBERS

MPMC Members
First Row (L-R) - Mindanao Development Authority; Department of Energy; Energy Regulatory Commission
Second Row (L-R) - National Electrification Administration; National Power Corporation; Power Sector Assets and Liabilities Management
Third Row (L-R) - Association of Mindanao Rural Electric Cooperatives; Mindanao Electric Power Alliance (middle top); National Transmission Corporation (middle bottom); National Grid Corporation of the Philippines



RE-OPENING OF THE ILIGAN DIESEL POWER PLANT

With the strong support of MPMC, the re-opening of the Iligan Diesel Power Plant, now known as Mapalad Power Corporation (MPC) was hastened.

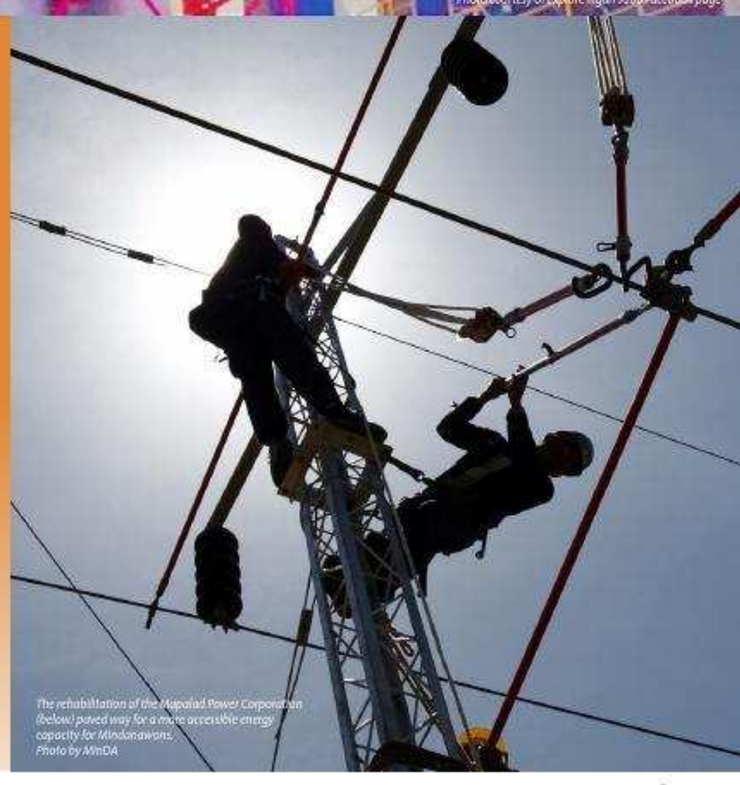
Conal Holdings Corporation currently has full control of the power plant, which began operating in April 2013 on a ramp up capacity with an initial load of 26 MW. In September of 2013, MPC completed the full rehabilitation of the power plant which is now able to supply the full 98 MW of its installed capacity.

Photo courtesy of Explore Iligan 9200 Facebook page

CONTRACTED CAPACITIES FROM MPC

Several electric cooperatives have already contracted capacity from MPC to help bridge the power deficit in their respective area of coverage.





The rehabilitation of the Mapalad Power Corporation (below) paved way for a more accessible energy capacity for Mindanaoans.
Photo by MinDA

REHABILITATION OF THE

AGUS AND PULANGI HYDRO POWER COMPLEXES



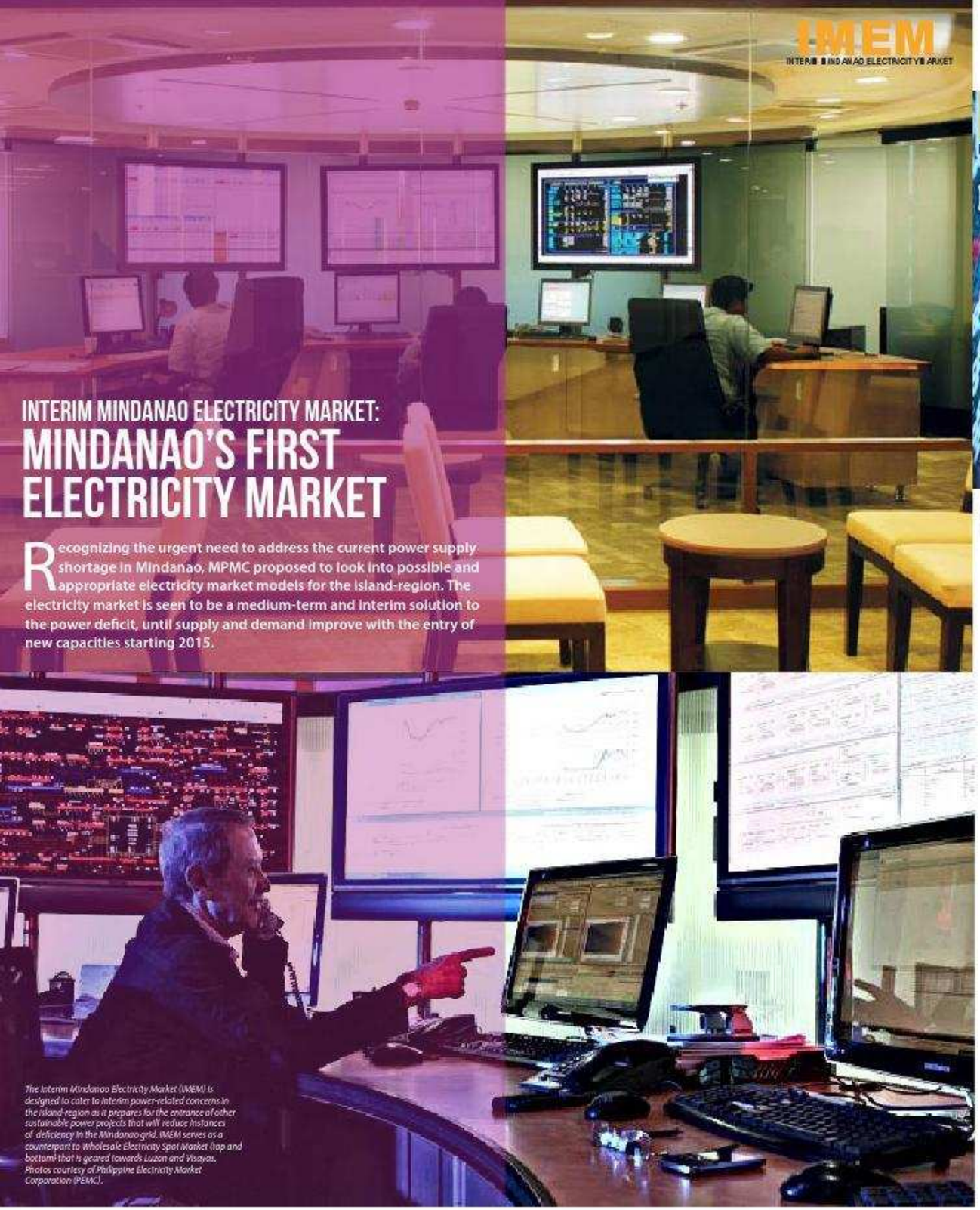
Photo by MinDA

One of MPMC's priority measures to address the power supply shortage in Mindanao is the rehabilitation of the Agus and Pulangi Hydro Power Complexes, identified as among the top recommendations during the Mindanao Power Summit.

The uprating project of Agus 6 amounting to Php 2.598 billion was already approved by NEDA. The project includes uprating of units 1 and 2 of Agus 6, as well as the construction of the Balo-i Flood Control Project, which will increase the output of Agus 2. With the bidding process for the project already completed by Power Sector Assets and Liabilities Management Corporation (PSALM) in the last quarter of 2013, the project is set to commence in 2014 following a 30-month timeline. Completion of the project is seen to extend the economic life of the plant for 30 more years, and uprate its capacity from 50 to 69MW.

A consultancy service was also secured for a thorough study on the implementation of the Balo-i Flood Control Project, which will be undertaken by the Department of Public Works and Highways (DPWH), in partnership with MinDA and the local government of Lanao del Norte. NEDA-approved budget for the said flood control project is Php 1.72 billion, which will be implemented on a 24-month timeline.

"COMPLETION OF THE UPRATING OF UNITS 1 AND 2 OF AGUS 6 IS SEEN TO EXTEND THE ECONOMIC LIFE OF THE PLANT FOR 30 MORE YEARS, AND UPRATE ITS CAPACITY FROM 50 TO 69MW."



INTERIM MINDANAO ELECTRICITY MARKET:
MINDANAO'S FIRST ELECTRICITY MARKET

Recognizing the urgent need to address the current power supply shortage in Mindanao, MPMC proposed to look into possible and appropriate electricity market models for the island-region. The electricity market is seen to be a medium-term and interim solution to the power deficit, until supply and demand improve with the entry of new capacities starting 2015.

The Interim Mindanao Electricity Market (IMEM) is designed to cater to interim power-related concerns in the island-region as it prepares for the entrance of other sustainable power projects that will reduce instances of deficiency in the Mindanao grid. IMEM serves as a counterpart to Wholesale Electricity Spot Market (top and bottom) that is geared towards Luzon and Visayas. Photos courtesy of Philippine Electricity Market Corporation (PEMC).



Department of Energy Secretary Jericho Petilla (middle, left photo), Davao del Sur Electric Cooperative (DASURECO) General Manager Engr. Godofredo Guya (left), and Melinda Ocampo of the Philippine Electricity Market Corporation sign an agreement to formalize DASURECO's participation in the Interim Mindanao Electricity Market on September 20, 2013.



Also photographed with Petilla and Ocampo during the Interim Mindanao Electricity Market launch were WESM commissioners Alfredo Nani (left), Gloria Victoria Yap-Taruc (second from right), and Josefina Patricia Asirit (right). Photos by MinDA.

DOE acted on this proposal by directing the Philippine Electricity Market Corporation (PEMC) to develop and implement an interim electricity market design specific to Mindanao or the Interim Mindanao Electricity Market (IMEM). Contrary to the Wholesale Electricity Spot Market (WESM) operating in Luzon and Visayas, Mindanao's electricity market will follow a day-ahead structure. This means that IMEM will only be used if there is supply deficiency in the Mindanao grid.

"All of the distribution utilities and other generation capacities connected to the Mindanao power system are mandated to participate in the IMEM. However, the market is also encouraging the participation of the voluntary load customers through load curtailment or synchronized self-generation," - DOE Secretary Carlos Jericho Petilla, IMEM Launching in September 2013.

After months of preparatory work, which included public consultations and trial implementation, IMEM started its commercial implementation on December 06, 2013. Upon implementation, Mindanao officially opened its trading floor for electricity, operated by PEMC. The Mindanao System Operator declared market intervention and suspended IMEM operations due to capacity constraints brought about by the dry summer months and the 200MW STEAG coal-fired baseload power plant being on forced outage. Ongoing reconciliation of billing & settlements as well as coordination with Mindanao SO on the lifting of market intervention.

The IMEM Governance committee is responsible for the enforcement of the IMEM Market Rules and the resolution of disputes between market participants and operator.

IMEM PARTICIPANTS
(as of December 2013)

- Therma Marine Incorporated
- STEAG State Power
- Mindanao Energy Systems, Inc.

IMEM GOVERNANCE COMMITTEE



Atty. Patrick T. Aquino
Department of Energy



Melinda L. Ocampo
IMEM Operator



Jesus L. Aranza
Independent Member



Noel R. Estoperez
Independent Member



Merly M. Cruz
Independent Member



Eugene H. Bicar
Mindanao System Operator
(Non-voting Member)



Through the initiative of MPMC, collaborations between distribution utilities, electric cooperatives and the private sector (above) came into fruition, paving way to a more practical solution that will address power-related issues in Mindanao. Photo by Bro. Jeff Picquinto, S.J.

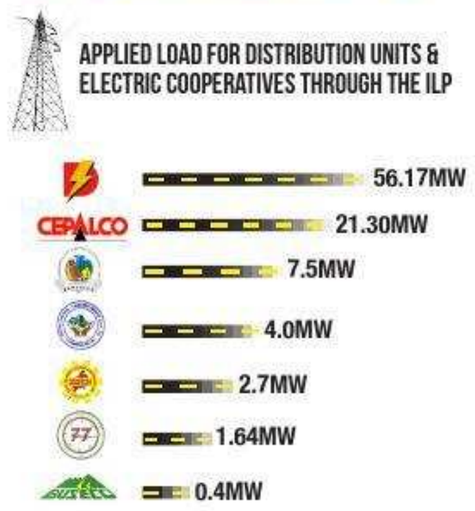
PETITION FOR THE INCREASE IN THE

INTERRUPTIBLE LOAD PROGRAM (ILP) RATES

Seeing the need to increase the current ILP rates to make it more viable attractive for Mindanao stakeholders, MinDA through MPMC urged the Davao Light and Power Company (DLPC) to initiate a petition seeking for an increase in the rate compensation of the ILP. ERC heeded the petition, implementing an increase rate of PhP 0.34 li/KW, including maintenance cost. The amendment was strongly based on the petition filed by DLPC, making ILP a more realistic and accessible power shortage solution for Mindanao.

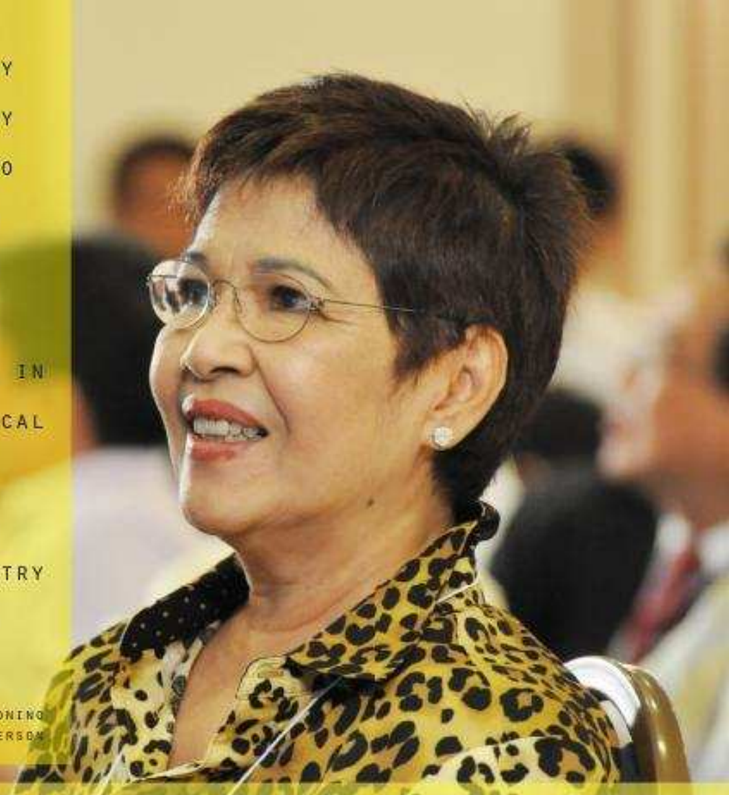
ILP Rules were crafted and promulgated by the ERC to help address the power supply deficit in certain parts of the country. Under the ILP, a distribution utility (DU) and a Participating Customer can enter into an agreement wherein the latter may be requested by the DU to de-load. Ideally, the program can generate at least 200MW capacity solely coming from the embedded generators of distribution utilities and voluntary load participants like malls and factories that have their own standby generator sets.

APPLIED LOAD FOR DISTRIBUTION UNITS & ELECTRIC COOPERATIVES THROUGH THE ILP



"We are looking into the viability of investments in renewable energy projects. Specifically small hydro and biomass generation to sustain Mindanao's ideal energy mix of 50 percent RE and 50 percent fossil-based power plants in the future, in full recognition of MinDA's critical role in spearheading efforts of the national, regional, and local government as well as power industry stakeholders to improve the power sector in the island-region."

Secretary Lunalhati R. Antonino
MinDA Chairperson



ESTABLISHMENT OF THE

ONE-STOP FACILITATION AND MONITORING CENTER FOR RE POWER PROJECT APPLICATIONS

Consistent with its thrust to promote renewable energy (RE) in Mindanao, MinDA through MPMC prioritized the creation of a One Shop Facilitation and Monitoring Center (OSFMC) that will speed up the approval of application permits for RE power projects.

MinDA took the lead in conducting consultations with the agencies that are involved in the approval process, including DENR, DAR, DA, HLURB, National Commission on Indigenous People, and DOE-Mindanao. The consultations were conducted to determine the specific delays in the approval process and identify feasible steps to address them.

MinDA in collaboration with the DOE created a database of all pending Small Hydro and Biomass and Solar Power project applications and their status. DOE for its part has also implemented a one-stop shop within the department to fast track the application process of potential power projects filed with the department. The DOE has initiated changes to the prevailing timelines of power project applications filed with the department particularly in terms of renewable energy. DOE Secretary Jericho Petilla instructed Director Mario Marasigan of the Renewable Energy Management Bureau to finish all pending RE power project applications by December 2013.

With the support from USAID CEnergy, an I.T. service provider has also been contracted to develop the one-stop shop intranet website that will assist the MPMC in tracking (real time) the status of all pending RE Power project applications in Mindanao.

OSFMC CONSULTATIONS



REGIONAL BRIEFINGS ON

POWER AND RENEWABLE ENERGY DEVELOPMENT

The conduct of Regional Media Briefings is an initiative undertaken by MinDA, DOE, and USAID-CEnergy to capacitate Mindanao media on energy and power reporting. This program is part of MinDA's partnership with USAID CEnergy and DOE for the implementation of the Renewable Energy Advocacy and Development in Mindanao. Several training legs were implemented by MinDA through the MindaNews Foundation which acted as service provider of the program. Almost 300 Mindanao media practitioners participated in the training programs whose objectives were to capacitate them with the necessary skills to understand better energy-related issues as well as skills in energy beat reporting.

Regional Legs of Power and RE Development Briefings

- Davao City - March 8, 2013
- Cagayan de Oro City - March 22, 2013
- Butuan City - April 19, 2013



ESTABLISHMENT OF THE

MINDANAO POWER DATA PORTAL

After a series of coordination meetings with the members of the energy family to discuss mechanisms on data sharing, MPMC has identified specific databases that will aid in accurate monitoring of the power sector in Mindanao.

To date the following databases have already been completed by the MPMC (see infographic)

Complementing these Mindanao data, DOE also launched the website www.kuryente.org.ph, which provides important details on the power sector for the entire country including Mindanao at the click of a mouse.

The MPMC will implement a Mindanao specific data portal for all relevant information on the Mindanao power sector, to be made accessible to all stakeholders.

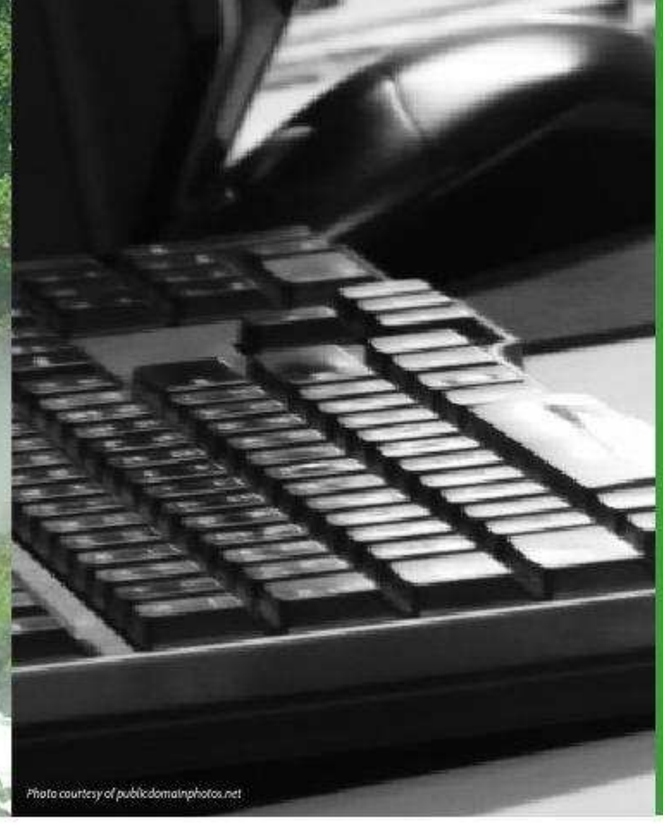


Photo courtesy of publicdomainphotos.net

KURYENTE.ORG.PH



Kuryente.org.ph serves as an online portal for information concerning the power situation across the country. Through this database, consumers are in the loop as to how energy is and should be utilized.

COMPLETED DATABASES BY MPMC

- Database on existing power plants controlled by NPC with their corresponding status of operations
- Database on pending Small Hydro and Biomass and Solar Power project applications
- Database on list of private Distribution Utility companies with their corresponding embedded generation capacities
- Database on electric cooperatives with corresponding contracted capacities including embedded generation if applicable

MINDANAO ENERGY RESOURCE ASSESSMENT PROJECT FOR

SMALL HYDRO AND BIOMASS

A major component of the CEnergy-MinDA-DOE Partnership Program for Renewable Energy Advocacy and Development in Mindanao is the conduct of the Mindanao Energy Resources Assessment and Mapping Project for Hydro and Biomass Sources. The project mapped out areas across Mindanao with potentials for RE power development specifically Biomass and Small Hydro. Mapping teams both for Hydro and Biomass conducted assessment activities in Region IX, X, and XII to look for said potential areas.

Results of the assessment were presented to the Mindanao stakeholders and to the specific LGUs where the potential areas are located in Davao City. MPMC will ensure the strong and active participation of the concerned stakeholders and LGUs.



Biomass plant photos courtesy of www.thomasnet.com, corn cob photo courtesy of cropsreview.com – image2.com, sugar cane photo courtesy of pakistanisugarmills.com.pk, rice husk photo c/o Wikimedia Commons

Small hydro power plant photo courtesy of inserbia.info; Cibrong and Badtanan River photos c/o panoramio.com

Background photo courtesy of pixabay.com



Power industry stakeholders participate in the Davao City leg of the Mindanao Power Forum (right) as Department of Energy Secretary Carlos Jericho Petilla (above) responds to queries during the Zamboanga leg of the Mindanao Power Forum.

"ALL THESE MEASURES AND PROJECTS, AS ESTABLISHED BY THE DOE WITH THE HELP OF ITS ATTACHED AGENCIES, THE LOCAL GOVERNMENT UNITS AND THE PRIVATE SECTOR, ARE ENVISIONED TO PROVIDE THE BEST POSSIBLE SOLUTIONS TO ADDRESS THE MINDANAO POWER SITUATION FOR THE REGION'S FURTHER DEVELOPMENT."

SECRETARY CARLOS JERICHO PETILLA
DEPT. OF ENERGY SECRETARY

CONDUCT OF

POWER FORA

As part of MPMC's efforts to inform and educate the public on Mindanao's power crisis, a series of power fora were conducted in the cities of Zamboanga and General Santos, two of Mindanao's key cities that were badly affected by the rotating power outages.

The office of then Congresswoman Ma. Isabelle Climaco-Salazar formed a technical working group to carefully study the impact of the presented solutions to the city's power problem. . Part of the study's objective is to ease the ease the concerns of the Zamboangeños regarding potential price increase and continued rotational power outages in the city.

Participants in the forum were specifically concerned about the EPIRA law, emphasizing that some provisions of the law are inhibiting the government from creating generating new electricity sources. DOE Sec. Petilla assured the stakeholders that there would be the appropriate time to discuss the problems of EPIRA, and that the government is focusing on finding immediate problems to the power supply deficit in the city.







Photos by MinDA

THE MINDANAO
POWER SITUATION EXPLAINED

This infographic provides a quick glimpse on the events that transpired in 2013 which greatly affected the state of power across Mindanao. Short-term solutions as well as long-term commitments to alleviate and prevent such issue from recurring are also shown here.

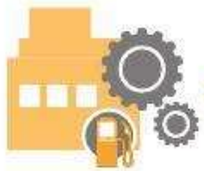
JANUARY 2012



150-200MW power deficit

From January 2012- January 2013, Mindanao was on red alert status with power deficit averaging 150-200 MW daily.

MARCH 2013

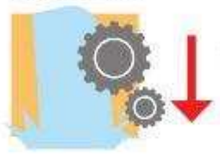


= 4-8 hours brownout

Supply shortfall recorded the highest with both planned (scheduled maintenance) and unplanned outages (due to mechanical issues) of several plant units, including one of TMI power barge with 50MW of TMI which went offline since March 18. Brownouts now averaging 2-4 hours twice daily for total 4-8 hours. Most affected with up to 8 hours are Zamboanga City and General Santos City where substantial profile of consumers are industries.

MAY 2013

Agus-Pulangi



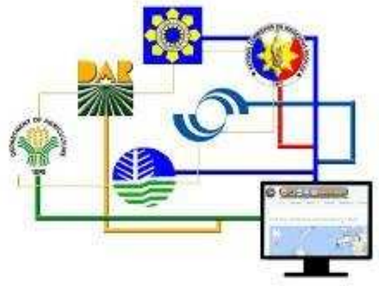
100MW decrease

Operations of Agus-Pulangi on conservation mode in anticipation of a possible long dry spell and the need to ensure availability of power weeks before and after May 13 elections. Conservation brought Agus hydro down to 450-500MW from average 550-600MW. Following load curtailments, rotating brownouts started being felt in many areas. Supply deficits occur between 11:00am to 8:00pm (Mindanao load curve).

Most electric coops had their contracts with PSALM up for renewal, with power supply lower and per PSALM, reflected actual power that it can deliver following reduced output of Agus and Pulangi hyrdo complex.

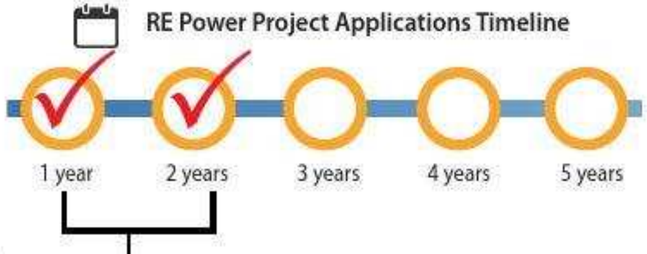
WAYS FORWARD
PROJECTED CAPACITIES (2014-2017)





ESTABLISHMENT OF THE ONE-STOP PROCESSING AND FACILIATION CENTER

The MPMC has also worked for the establishment of web-based **One-Stop Processing and Facilitation Center for RE Projects**, in partnesrhip with DOE and key agencies involved in the approval of RE power projects such as DENR, NCIP, DA, DAR, DPWH, as well as LGUs, among others.



The virtual One-stop Processing and Facilitation Center also accelerates the processing and approval time for RE power project applications in Mindanao to 1-2 years from the usual 3-5 years.

Flip page for more details

157 RE Applications (mostly)

1699.57MW of clean and sustainable capacity

2013

IMMEDIATE MEASURES

APRIL 2013

98MW
Re-opening of the Iligan Diesel Power Plant

15MW *(each)*
Embedded capacities of some Electric Cooperatives (Mapalad and DANECO)

50-100MW
Cloud seeding program being done over Lake Lanao since second week of May

MAY 2013

100MW
Interruptible Load Program (ILP) where malls, factories, and industries are encouraged to participate by running their gen sets.

199MW*
tapping of modular generator sets (proposed by DOE thru NEA & currently being studied by a TWG of AMRECO)

* To date, a total of 46MW of capacity were acquired by 7 electric cooperatives through said program

DECEMBER 2013

150-200MW*
Implemented the Interim Mindanao Electricity Market (IMEM) to draw 150-200MW from uncontracted capacities and entice entry of other players.

* The Mindanao System Operator (SO) initiated market intervention due to lack of capacity during summer months. Ongoing reconciliation of billing & settlements as well as coordination with Mindanao SO on the lifting of market intervention

LONG-TERM MEASURES

START OF 2013

50-100MW
Ongoing uprating and rehabilitation of Agus and Pulangi hydro plant units

- Uprating of Agus-Pulangi units
- Flood Control Project for Balo-i Plains
- Pulangi 4 Selective Dredging

2014
26.1MW

IMMEDIATE MEASURES

JUNE 2014

MPMC notes that the Mindanao power situation has already improved with the onset of the rainy season.

4TH QTR 2014

The 300MW Therma South coal of Aboitiz goes online by the 4th quarter of 2014 and then commercial operation starting March 2015.

AboitizPower

20.9MW
PSI Bunker-Fired Power Plant (Soccsargen)

SEPTEMBER 2014

5.2MW
PSFI Bunker-Fired Power Plant (San Francisco)

2015
580MW

LONG-TERM MEASURES

MAR 2015

150MW
Therma South Coal-fired Plant (Unit 1)

JUN 2015

150MW
Therma South Coal-fired Phase 2

100MW
Southern Mindanao Coal-Fired Power Station (Unit 1)

SEPT 2015

30MW
Puyo Hydro Electric Power Plant

DEC 2015

150MW
SMC Davao Power Plant Project (Unit 1)

2016
720MW

LONG-TERM MEASURES

FEB 2016

10MW *(each)*
Kalilangan Bio Energy Corporation
Don Carlos Bio Energy Corporation
Malaybalay Bio Energy Corporation
LPC Biomass Power Plant Project

MAY 2016

25MW
Lake Mainit

JUNE 2016

135MW
Misamis Circulating Fluidized Bed (CFB) Unit 1

SEP 2016

135MW
Misamis Circulating Fluidized Bed (CFB) Unit 2

150MW
SMC Davao Power Plant Project (Unit 2)

NOV 2016

100MW
Sarangganí Coal-fired Phase 2

DEC 2016

135MW
Misamis Circulating Fluidized Bed (CFB)

2017
550.6MW

LONG-TERM MEASURES

9MW
Limbataganon Hydroelectric Power Project

MAR 2017

540MW
Psag Corp Coal-Fired Power Plant

TBA

1.6MW
Phil. Trade Center Biomass Cogeneration Facility

ACRONYMS

A-C

AMRECO | *Association of Mindanao Rural Electric Cooperatives*
ANECO | *Agusan del Norte Electric Cooperative*
ASECO | *Agusan del Sur Electric Cooperative*
CEnergy | *Climate Change and Clean Energy Project*

D

DANECO | *Davao del Norte Electric Cooperative*
DLPC | *Davao Light and Power Company*
DoE | *Department of Energy*
DU | *Distribution Utility*

E

EPIRA | *Electric Power Industry Reform Act*
ERC | *Energy Regulatory Commission*

I

IMEM | *Interim Mindanao Electricity Market*

M

MPC | *Mapalad Power Corporation*
MEPA | *Mindanao Electric Power Alliance*
MinDA | *Mindanao Development Authority*
MPMC | *Mindanao Power Monitoring Committee*

N

NEA | *National Electrification Administration*
NEDA | *National Economic Development Authority*
NGCP | *National Grid Corporation of the Philippines*
NPC | *National Power Corporation*

O

OSPFC | *One-Stop Processing and Facilitation Center*
OSFMC | *One-Stop Facilitation and Monitoring Center*

P

PEMC | *Philippine Electricity Market Corporation*
PSALM | *Power Sector Assets and Liabilities Management*

R-W

RE | *Renewable Energy*
SOCOTECO 2 | *South Cotabato Electric Cooperative 2*
TMI | *Therma Marine Incorporated*
Transco | *National Transmission Corporation*
WESM | *Wholesale Electricity Spot Market*

Z

ZAMCELCO | *Zamboanga City Electric Cooperative*
ZAMSURCO | *Zamboanga del Sur Electric Cooperative*

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